



Michigan Department of
Labor & Economic Growth

Interpretation Guide

X0611 Report

2005 Follow-up Survey of 2004 Program Completers

Michigan Department of Labor & Economic Growth Office of Career and Technical Preparation

Report X-0611 – Education By Employment Comparison

This report provides a snapshot of what has happened to former high school students who (1) have completed a career and technical education program, (2) were in 12th grade the previous spring, and (3) responded to a survey nine to ten months after 12th grade.

By type of program (CIP) and by totals at each of the district, CEPD, and state levels, the profiles provide you with the numbers and percentages (based on the total number of completers who responded) who were:

- A. Working for pay (“Employment”), or
- B. Continuing their educations (“Education”), or
- C. Not Employed and Not Continuing Education

The report breaks down both education and employment according to whether it is “related” or “unrelated” to the secondary CTE program. Students who answered that they use the skills they were taught either “a lot” or “some” were categorized as in “related” continuing education or employment. Students who answered that they use the skills they were taught “hardly ever” or “not at all” were categorized as in continuing education or employment “unrelated” to their secondary CTE program. Note that only student respondents, not proxy respondents provided information on “relatedness” of continuing education or employment. In this guide, the term “respondents” will refer to information about former students provided by both student respondents and proxy respondents. Students who completed more than one CTE program in high school answered the questions in relation to the program they were pursuing most. A student could be in continuing education related to the secondary CTE program and also be employed in a job related or unrelated to the CTE program. This report shows this breakdown. In addition, employment is broken down as full-time (FT), Part-time (PT) or hours unknown with full-time employment defined as working 35 hours per week or more.

The report is designed as a grid, with education status in rows and employment status in columns. Column 1 of the report contains row headings and row 1 contains column headings. Below is a description of the content of each section of the report. **Refer to a copy of the 2005 State-level report provided in Appendix A.**

TOTALS

You will find useful total values in row 8 and in column 17 of this report. Row 8 shows the total number and percent of respondents for each type of employment. For example, column 14 of row 8 shows the total number and percent of respondents who were employed. In the example, 22,344 or 64.8% of total respondents were employed full-time, part-time or for an unknown number of hours per week. You will note that this is the same number shown in row 5 in the “Total” column on the X0610 report. The percentage shown on this report (X0611) reflects the percentage of total respondents, rather than the percent of those available for work.

Column 17 shows the total number and percent of respondents for each type of continuing education. For example, row 5 of column 17 shows the total number and percent of respondents who were in continuing education. In the example, 23,932 former students or 69.4% of total respondents were continuing their educations in a field that was related, unrelated or of unknown relatedness to their secondary CTE program. This number and percent are the same as shown in row 12 of the “total” column of the X0610 report.

Row 8, column 17 shows the total number of survey respondents. In the example, 34,506 respondents provided information on former students. The percentage shows that this number represents 100.0% of respondents. This is the same as the number shown in the “total” column in row 2a on the X0610 report. The X0610 report also shows the total number of completers to be surveyed and the survey response rate.

Subtotals* by type of employment are shown in columns 5, 9 and 13 and are discussed under the appropriate section. You will find the discussion of the total number and percent of students in related employment shown in column 5 under the section heading “related employment.” Discussion of the total number and percent of students in unrelated employment shown in column 9 is found under the section heading “Unrelated Employment.” Discussion of column 13 (relatedness of employment unknown) is found under the section heading “Both Employed and Continuing Education.”

The total number and percent of students in continuing education is shown in row 5. Discussion of this total is found under the section heading “Total Continuing Education.”

EMPLOYMENT

Columns 2-5: Related Employment

Columns 2 through 5 give the numbers of respondents who were in related employment by education status. For students working in a job related to their CTE program, column 2 shows the number working full-time, column 3 shows the number working part-time and column 4 shows the number working an unknown number of hours. The percent in each cell is based on the total number of respondents. For example, column 5, row 5 shows the number and percent of respondents who were both working in a job related to their CTE program and continuing their educations in a related or unrelated field (5,336 or 15.5% of respondents, in the example). Row 2, column 2 shows the number working full-time in a related field as well as continuing their educations in a related field. Row 3, column 2 shows the number working full-time in a related field but continuing education in an unrelated field. In the example, 1,620 or 4.7% of survey respondents were both working full-time in a job related to their CTE program and continuing their educations (row 5, column 2). Column 5, row 2 shows the number and percent of total respondents who were both working in a job related to their CTE program and continuing their educations in a related field. In the example, 4,461 or 12.9% of total survey respondents were both working in a job related to their CTE program and continuing their educations in a related field.

Column 5 of row 8 shows the total number of respondents who were employed in a job related to their CTE program. This value includes all respondents who reported related employment, regardless of whether or not they were continuing their educations, including those whose education status and hours worked were unknown. The percent shown in column 5 of row 8 is the percent of total respondents employed in a job related to their CTE program. The percent is calculated by dividing the total number in related employment (column 5, row 8) by the total number of respondents (given in column 17 of row 8). In the example, 8,568 or 24.8 percent of survey respondents were employed in a job related to their CTE program.

* Rows 2, 3, and 4 (related, unrelated, and relatedness unknown) are subcategories of Continuing Education.

Column 2 of row 8 shows the total number of respondents who were employed full-time in a field related to their CTE program and column 3 of row 8 shows the total number employed part-time in a related field. These numbers match the values in rows 6a and 7a respectively, of the X0610 report. The percentages differ from those shown on the X0610 report because those percentages are based on the number of respondents who were available for work, whereas this percentage is based on the total number of respondents.

Columns 6-9: Unrelated Employment

Columns 6 through 9 give the numbers of respondents who were in unrelated employment by education status. For students working in a job unrelated to their CTE program, column 6 shows the number working full-time, column 7 shows the number working part-time and column 8 shows the number working an unknown number of hours. The percent in each cell is based on the total number of respondents. For example, column 6, row 2 shows the number and percent of respondents who were working full-time in a job unrelated to their CTE program but were continuing their educations in a field of study related to their CTE program. In the example, 441 or 1.3% of respondents were working full-time in an unrelated job but were continuing their educations in a field related to their CTE program. Column 7, row 2 shows the number and percent of total respondents who were working part-time in a job unrelated to their CTE program, but continuing their educations in a field related to their CTE program. In the example, this was 1,602 former students or 4.6% of respondents. Column 9, row 2 shows the total number of respondents who were working in a job unrelated to their secondary CTE program but who were continuing their educations in a related area. In the example, 2,073 former students whose employment was unrelated to their secondary CTE program were pursuing continuing education in a field related to their program.

Column 9 of row 8 shows the total number of respondents who were employed in a job unrelated to their CTE program. This value includes all respondents, regardless of whether or not they were continuing their educations and includes those whose education status was unknown. The percent shown in column 9 of row 8 is the percent of total respondents employed in a job unrelated to their CTE program. The percent is calculated by dividing the total number in unrelated employment (column 9, row 8) by the total number of respondents (given in column 17 of row 8). In the example, a total of 5,621 or 16.3% of respondents were employed in a field unrelated to their secondary CTE program.

Column 6 of row 8 shows the total number of respondents who were employed full-time in a field unrelated to their CTE program and column 7 of row 8 shows the total number employed part-time in an unrelated field. These numbers match the values in rows 6b and 7b respectively, of the X0610 report. The percentages differ from those shown on the X0610 report because those percentages are based on the number of respondents who were available for work, whereas this percentage is based on the total number of respondents.

Columns 10-13: Employed – Relatedness Unknown

Columns 10 through 13 show the number and percent of respondents who reported employment, but who did not provide information on relatedness. Since relatedness was measured by asking for the viewpoint of the former student, only former students, not proxy respondents, provided information on relatedness. Columns 10 through 13 include all proxy responses that reported employment as well as student responses in which relatedness of the employment was unknown.

Column 14: Total Employment

The total number of respondents who were employed is given in column 14 of row 8. This value includes those with unknown hours and/or unknown relatedness. It includes all employed, regardless of education status, including those not continuing their educations or whose education status was unknown. This number is the same as that shown in the "total" column in row 5 of the X0610 report. The percent of respondents who were employed, either part-time or full-time, in either a related or an unrelated job, is also shown in column 14 of row 8. The percent is calculated by dividing the total number employed (column 14, row 8) by the total number of respondents (given in column 17 of row 8). This percentage differs from the percentage shown on the X0610 report because that percent is based on the number of respondents who were available for work, whereas this percentage is based on the total number of respondents. In the example, 22,344 former students, or 64.8% of all survey respondents, were employed.

Column 15: Not Employed

Column 15 shows the number and percent of respondents who were not employed, by education status. Row 5, column 15 shows the number and percent who were not employed but were in continuing education. In the example, 10,298 or 29.8% of respondents were not employed, but were in continuing education. Row 6, column 15 shows the number and percent who were not employed and who were not in continuing education. In the example, 1,864 or 5.4% of respondents were not employed and were not in continuing education. This includes both former students who were seeking work and who were not seeking work. The total number of respondents who were not employed is shown in row 8, column 15. In the example, 12,162 former students or 35.2% of respondents were not employed.

Column 16: Employment Status Unknown

Column 16 shows the number and percent of respondents for whom employment status was unknown.

Row 8: Employment Status Totals

Row 8 shows the total number and percent for each employment status, regardless of education status.

CONTINUING EDUCATION**Row 2: Related Continuing Education**

The total number of respondents who were in continuing education related to their secondary CTE program is given in row 2 of column 17. This value includes students who were not employed or whose employment status was unknown. The percent shown in row 2 of column 17 is the percent of total respondents in continuing education related to their CTE program. The percent is calculated by dividing the total number in continuing education in a related field (row 2, column 17) by the total number of respondents (row 8, column 17). In the example, 10,814 or 31.3% of respondents were in continuing education related to their CTE program. This number is also shown in row 12a of the X0610 report. The percentage on the X0610 report differs because it shows the percentage of student respondents continuing their educations, while this report shows the percent of total respondents.

Columns 2 through 13 of row 2 give the numbers of respondents who were in related continuing education by employment status. The percent in each cell is based on the total number of respondents. For example, row 2, column 5 shows the number and percent of total respondents who were both continuing their educations in a field related to their CTE program, and working (full-time or part-time) in a related job. In the example, 4,461 or 12.9% of respondents were both employed in a field related to their secondary CTE program and continuing their educations in a related field.

Row 3: Unrelated Continuing Education

The total number of respondents who were continuing their educations in an area unrelated to their secondary CTE program is given in row 3 of column 17. This value includes students who were not employed or whose employment status was unknown. The percent shown in row 3 of column 17 is the percent of total respondents in continuing education unrelated to their CTE program. The percent is calculated by dividing the total number in continuing education in an unrelated field (row 3, column 17) by the total number of respondents (row 8, column 17). In the example, 3,937 or 11.4% of respondents were continuing their educations in a field unrelated to their secondary CTE program.

Columns 2 through 13 of row 3 give the numbers of respondents who were in unrelated continuing education by employment status. The percent in each cell is based on the total number of respondents. For example, row 3, column 5 shows the number and percent of total respondents who were continuing their educations in a field unrelated to their CTE program, but working (full-time or part-time) in a job related to their CTE program. In the example, 796 or 2.3% of respondents were continuing their educations in an unrelated field but working full-time or part-time in a related field.

Row 4: Continuing Education – Relatedness unknown

Row 4 shows the number and percent of respondents who reported continuing education, but who did not provide information on relatedness. Since relatedness was measured by asking for the viewpoint of the former student, only former students, not proxy respondents, provided information on relatedness. Row 4 includes all proxy responses that reported continuing education as well as student responses in which relatedness of the continuing education was unknown.

Row 5: Total Continuing Education

The total number of respondents who were continuing their educations is given in row 5, column 17. In the example, 23,932 or 69.4% of respondents were continuing their educations. This value includes those in continuing education of unknown relatedness to the secondary CTE program. It includes all continuing their educations, regardless of employment status, including those not employed or whose employment status is unknown. The percent shown in row 5 of column 17 is the percent of total respondents continuing their educations. The percent is calculated by dividing the total number continuing their educations (row 5, column 17) by the total number of respondents (column 17, row 8). This value and percent are the same as that shown in the “total” column of row 12 of the X0610 report.

Row 6: Not in Continuing Education

Row 6 shows the number and percent of respondents who were not in continuing education, by employment status. In the example, a total of 10,574 or 30.6% of respondents were not in continuing education (row 6, column 17).

Row 7: Continuing Education Status Unknown

Row 7 shows the number and percent of respondents for whom continuing education status was unknown.

Column 17: Education Status Totals

Column 17 shows the total number and percent for each education status, regardless of employment status.

EDUCATION BY EMPLOYMENT COMPARISON

Both Employed and Continuing Education

The number of students who were both employed and continuing their educations is given in row 5 of column 14. This value includes those for whom the relatedness of the continuing education and/or employment was unknown and those for whom the number of hours worked was unknown. It does not include those for whom either continuing education status was unknown or for whom employment status was unknown. The percent shown in row 5, column 14 is the percent of total respondents who were both employed and continuing their educations. The percent is calculated by dividing the total number both employed and in continuing education (row 5, column 14) by the total number of respondents (row 8, column 17). In the example, 13,634 or 39.5% of respondents were both employed and continuing their educations.

The individual cells between columns 2 through 13 and rows 2 through 4 show a detailed breakdown of the employment and continuing education status of respondents who were both employed and continuing their educations. The percent in each cell is based on the total number of respondents. For example, row 2, column 5 shows the number and percent of total respondents who were both employed in a job related to their CTE program and continuing their educations in a field related to their CTE program, (4,461; 12.9% of respondents in the example). Row 2, column 9 shows the number and percent who were employed in a job unrelated to their CTE program but who were continuing their educations in a field related to their secondary CTE program. (2,073; 6.0% of respondents in the example). Column 5, row 3 shows the number and percent who were continuing their educations in a field unrelated to their secondary CTE program but were currently employed in a job related to the CTE program (796; 2.3% of respondents in the example). Row 4, column 13 shows the number and percent of total respondents who were both employed and in continuing education of unknown relatedness to their CTE program (4,479; 13.0% of respondents in the example). This cell includes all responses in which the CTE completer was reported to be both employed and in continuing education but the information was reported by someone other than the CTE completer personally (a proxy respondent).

Neither Employed nor in Continuing Education

The number of respondents who reported that they were neither employed nor continuing their educations is given in row 6 of column 15. This value does not include those for whom either education status or employment status was unknown. The percent shown in row 6, column 15 is the percent of total respondents who were neither employed nor continuing their educations. The percent is calculated by dividing the total number neither employed nor in continuing education (row 6, column 15) by the total number of respondents (row 8, column 17). In the example, 1,864 or 5.4% of respondents were neither employed nor in continuing education. This value includes both those seeking work and not seeking work.

Total Placement

Total placement ("Total" column in row 3 of the X0610 report) is calculated by taking the difference between the total number of respondents (row 8, column 17 of the X0611 report) and the number not in continuing education/not employed plus the number with employment and/or continuing education status missing.

For example, in 2005, you would sum the following cells to get the number not employed/not in continuing education or with employment and/or continuing education status missing:

- Row 6, column 15: not continuing education/not employed = 1,864
- Row 7, column 16: education/employment both not answered = 0

- Row 7, column 15: not employed/education not answered = 0
- Row 6, column 16: not in continuing education/employment not answered = 0

Sum of above cells: $1,864 + 0 + 0 + 0 = 1,864$

Take the difference of the above sum and the “Total” (row 8, column 17) to determine “Total Placement.” (E.g., $34,506 - 1,864 = 32,642$)

REPORT LEVELS

This report is available at four different “levels.” The levels are “Home School” (the building in which the student is enrolled in courses other than CTE courses), “Fiscal Agency” (a school district that conducts or is accountable for the conduct of one or more state approved vocational programs), “CEPD” (Career Education Planning District), and “State.” Because of the complexity of the information provided, each report only displays the information specific to that level. For comparison purposes, it is necessary to compare to separate reports for other levels, such as the state level.

This report only shows aggregated information across instructional (CIP) programs at each level (home school, fiscal agency, CEPD and State). The X0610 report shows information by type of instructional program (CIP Code) as well as aggregated.

If you have questions about interpretation, or suggestions for improving these reports, please contact:

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APPENDIX A

X0611

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State Level Report

Michigan Department of Labor & Economic Growth

Office of Career and Technical Preparation

2005 Follow-up Survey of 2004 Completers

Education by Employment Comparison

Education (1)	Employment														Not Ans (16)	Total (17)
	Related				Unrelated				Relatedness Unknown							
	Full Time (2)	Part Time (3)	Hrs Unk (4)	Total (5)	Full Time (6)	Part Time (7)	Hrs Unk (8)	Total (9)	Full Time (10)	Part Time (11)	Hrs Unk (12)	Total (13)	Total Emp (14)	Not Emp (15)		
2. Continuing Education Related	1,349 3.9%	3,038 8.8%	74 0.2%	4,461 12.9%	441 1.3%	1,602 4.6%	30 0.1%	2,073 6.0%	29 0.1%	34 0.1%	54 0.2%	117 0.3%	6,651 19.3%	4,163 12.1%	0 0.0%	10,814 31.3%
3. Unrelated	222 0.6%	569 1.6%	5 0.0%	796 2.3%	360 1.0%	1,175 3.4%	17 0.0%	1,552 4.5%	4 0.0%	12 0.0%	18 0.1%	34 0.1%	2,382 6.9%	1,555 4.5%	0 0.0%	3,937 11.4%
4. Relatedness Unk	49 0.1%	28 0.1%	2 0.0%	79 0.2%	23 0.1%	20 0.1%	0 0.0%	43 0.1%	987 2.9%	3,284 9.5%	208 0.6%	4,479 13.0%	4,601 13.3%	4,580 13.3%	0 0.0%	9,181 26.6%
5. Total Cont.Educ	1,620 4.7%	3,635 10.5%	81 0.2%	5,336 15.5%	824 2.4%	2,797 8.1%	47 0.1%	3,668 10.6%	1,020 3.0%	3,330 9.7%	280 0.8%	4,630 13.4%	13,634 39.5%	10,298 29.8%	0 0.0%	23,932 69.4%
6. Not Continuing Education	2,493 7.2%	705 2.0%	34 0.1%	3,232 9.4%	1,290 3.7%	637 1.8%	26 0.1%	1,953 5.7%	2,632 7.6%	778 2.3%	115 0.3%	3,525 10.2%	8,710 25.2%	1,864 5.4%	0 0.0%	10,574 30.6%
7. Not Answered	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
8. Total	4,113 11.9%	4,340 12.6%	115 0.3%	8,568 24.8%	2,114 6.1%	3,434 10.0%	73 0.2%	5,621 16.3%	3,652 10.6%	4,108 11.9%	395 1.1%	8,155 23.6%	22,344 64.8%	12,162 35.2%	0 0.0%	34,506 100.0